

What is claimed is:

1 1. A water treatment system for treating water from a water source, the
2 water treatment system comprising:
3 a water storage tank;
4 an inlet for fluidly connecting the water storage tank to a water source;
5 a chlorination device fluidly connected to the water storage tank and the inlet;
6 a media filter vessel fluidly connected to the water storage tank;
7 a pump fluidly connecting the media filter vessel with the water storage tank;
8 and
9 a control valve for controlling flow through the media filter vessel to a system
10 outlet.

1 2. The water treatment system of Claim 1 wherein the water storage tank
2 further comprises:
3 the water storage tank including a footprint, the footprint substantially equal to
4 a diameter of the water storage tank; and
5 the inlet, the chlorination device, the media filter vessel, the pump and the
6 control valve all mounted within the footprint of the water storage tank.

1 3. The water treatment system of Claim 1 further comprising an inlet
2 manifold including the inlet, a sediment filter fluidly connected to the inlet, a solenoid
3 valve fluidly connected to the inlet, an air charging device fluidly connected to the
4 inlet, the inlet manifold fluidly connected to the chlorination device and the storage
5 tank.

1 4. The water treatment system of Claim 1 wherein the chlorination device
2 further comprises a chlorination basket containing an erodable source of chlorine,
3 the chlorination basket fluidly connected to the water storage tank and the inlet.

1 5. The water treatment system of Claim 1 wherein the erodable source of
2 chlorine further comprises a chlorine tablet.

1 6. The water treatment system of Claim 1 wherein the media filter vessel
2 further comprises the media filter vessel contained at least partially by the water
3 storage tank.

1 7. The water treatment system of Claim 1 wherein the media filter vessel
2 further comprises:

- 3 a first filter media layer including gravel;
- 4 a second media layer including MTM Green Sand;
- 5 a third media layer including activated carbon;
- 6 a fourth media layer including a pH booster;
- 7 a fifth media layer including filter aggregate; and
- 8 a sixth media layer including a freebore.

1 8. The water treatment system of Claim 1 wherein the control valve
2 further comprises:

- 3 a processing device;
- 4 a system memory device conductively connected to the processing device for
- 5 storing system configuration and operation data; and
- 6 an input device conductively connected to the processing device for inputting
- 7 system configuration and operation data.

1 9. The water treatment system of Claim 7 wherein the system
2 configuration and operation data further comprises a backflush command.

1 10. A water treatment system for treating water from a water source, the
2 water treatment system comprising:

- 3 a water storage tank;
- 4 an inlet for fluidly connecting the water storage tank to a water source;

5 a chlorination device fluidly connected to the water storage tank and the inlet;
6 a media filter vessel fluidly connected to the water storage tank;
7 a pump fluidly connecting the media filter vessel with the water storage tank;
8 a control valve for controlling flow through the media filter vessel to a system
9 outlet;
10 the water storage tank including a footprint, the footprint substantially equal to
11 a diameter of the water storage tank; and
12 the inlet, the chlorination device, the media filter vessel, the pump and the
13 control valve all mounted within the footprint of the water storage tank.

1 11. The water treatment system of Claim 10 further comprising an inlet
2 manifold including the inlet, a sediment filter fluidly connected to the inlet, a solenoid
3 valve fluidly connected to the inlet, an air charging device fluidly connected to the
4 inlet, the inlet manifold fluidly connected to the chlorination device and the storage
5 tank.

1 12. The water treatment system of Claim 10 wherein the chlorination
2 device further comprises a chlorination basket containing an erodable source of
3 chlorine, the chlorination basket fluidly connected to the water storage tank and the
4 inlet.

1 13. The water treatment system of Claim 10 wherein the erodable source
2 of chlorine further comprises a chlorine tablet.

1 14. The water treatment system of Claim 10 wherein the media filter vessel
2 further comprises:

3 a first filter media layer including gravel;
4 a second media layer including MTM Green Sand;
5 a third media layer including activated carbon;
6 a forth media layer including a pH booster;
7 a fifth media layer including filter aggregate; and

8 a sixth media layer including a freebore.

1 15. The water treatment system of Claim 10 wherein the control valve
2 further comprises:

3 a processing device;

4 a system memory device conductively connected to the processing device for
5 storing system configuration and operation data; and

6 an input device conductively connected to the processing device for inputting
7 system configuration and operation data.

1 16. The water treatment system of Claim 15 wherein the system
2 configuration and operation data further comprises a backflush command.